

SEQUENCE LISTING

<110> Urry, Dan

<120> Injectable Implants For Tissue Augmentation and Restoration

<130> BERL-020/04US

<150> US 09/258,723

<151> 1999-02-26

<150> US 60/087155

<151> 1998-05-29

<150> US 60/076297

<151> 1998-02-27

<160> 65

<170> PatentIn version 3.0

<210> 1

<211> 180

<212> DNA

<213> Artificial Sequence

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<211> 113

<212> DNA

<213> Artificial Sequence

<400> 2

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gggtgtgccg gtgtaggctt tccgggtttc ggattcccag gcgttggatc cag 113

<210> 3

<211> 33

<212> DNA

<213> Artificial Sequence

<400> 3

taggggtacc gggtcgtggg gactctccgg gcg 33

<210> 4

<211> 33

<212> DNA

<213> Artificial Sequence

<400> 4

cgcacccca tggcccagca ccactgagag gcc 33

TOEHO-TEETHO

<210> 5
 <211> 111
 <212> DNA
 <213> Artificial Sequence

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 gaggatccag gcgttggggg accgggtgtt ggcgtaccgg gtgttggtgt cccgggcaaa 60
 ggtgtgccgg gtgtaggcgt tccgggtgtg ggagtcccag gcgttggatc c 111

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 <211> 345
 <212> DNA
 <213> Artificial Sequence

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 ggtgtgggcg tccgggtgtg aggtgttcca ggcgtaggcg taccgggtcg tgggtgactct 180
 ccgggctgtg gtgtaccggg tgttggtgtg ccgggtgttg gtgttccggg cgtaggcgta 240
 ccgggctag gcgtgccggg cgtaggcgtt ccgggctgg gcgtaccggg cgtgggctg 300
 ccgggtgtgg gcgtccggg ttaggtgtt ccaggcgttg gatcc 345

<210> 7
 <211> 463
 <212> DNA
 <213> Artificial Sequence

<400> 7
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 cgtaccgggc gtaggcgtgc cgggcgtagg cgttccgggc gtgggcgtac cgggcgtggg 120
 cgtgccgggt gtgggcgtcc cagggttagg cgttccgggt gtgggttag ctccgggtgt 180
 tggcgttgca ccgggcgtag gtgttctcc gggcgttggc gtggcgccgg gtgttggtgt 240
 tgctccgggt gtaggcgttg ctccgggctg tgggtgtgcc ccagggttag gtgtggcacc 300
 gggcgttggg gtaccgggtg ttggtgtgcc ggggtgttgg gttccgggcg taggcgtacc 360
 gggcgtaggc gtgccgggcg taggcgttcc gggcgtgggc gtaccgggcg tgggcgtgcc 420
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<210> 9
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<400> 9

Gly Gly Val Pro Gly Gly Val Pro Gly Gly Val Pro Gly Gly Phe Pro
 1 5 10 15

Gly Gly Val Pro Gly Gly Val Pro Gly Gly Val Pro Gly Gly Phe Pro
 20 25 30

Gly Gly Val Pro Gly Gly Val Pro Gly Gly Val Pro Gly Gly Phe Pro
 35 40 45

<210> 10
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 <213> Artificial Sequence

<400> 10

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro
 20 25 30

<210> 11
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<400> 11

Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly
 1 5 10

<210> 12
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<400> 12

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 20 25 30

<210> 13
 <211> 111
 <212> PRT
 <213> Artificial Sequence

FOECHO-122TH860

<400> 13

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 1 5 10 15
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 20 25 30
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 35 40 45
 Val Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly
 50 55 60
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 65 70 75 80
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 85 90 95
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 100 105 110

<210> 14

<211> 148

<212> PRT

<213> Artificial Sequence

<400> 14

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 20 25 30
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 35 40 45
 Val Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val
 50 55 60
 Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro
 65 70 75 80
 Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val
 85 90 95
 Ala Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 100 105 110
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 115 120 125
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 130 135 140
 Val Gly Val Pro
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<210> 15
<211> 30
<212> PRT
<213> Artificial Sequence

<400> 15

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
20 25 30

<210> 16
<211> 4
<212> PRT
<213> Artificial Sequence

<400> 16

Val Pro Gly Gly
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<210> 17
<211> 5
<212> PRT
<213> Artificial Sequence

<400> 17

Val Pro Gly Val Gly
1 5

<210> 18
<211> 1255
<212> PRT
<213> Artificial Sequence

<400> 18

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
50 55 60

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
65 70 75 80

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
85 90 95

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
100 105 110

FOEHO:TEETHOO

435

440

445

Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
	450					455					460				
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
465					470					475					480
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
				485					490					495	
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			500					505					510		
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
		515					520					525			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
	530					535					540				
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
545					550					555					560
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
				565					570					575	
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			580					585					590		
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
		595					600					605			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
	610					615					620				
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
625					630					635					640
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
				645					650					655	
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			660					665					670		
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
		675					680					685			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
	690					695					700				
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
705					710					715					720
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
				725					730					735	
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			740					745					750		
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
		755					760					765			

FOURTH FEBRUARY

Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	
770						775					780					
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	
785					790					795					800	
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	
				805					810					815		
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	
			820					825					830			
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	
		835					840					845				
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	
850						855					860					
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	
865					870					875					880	
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	
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			900					905					910			
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	
		915					920					925				
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	
930						935					940					
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	
945					950					955					960	
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	
				965					970					975		
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	
			980					985					990			
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	
		995					1000					1005				
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly		
1010						1015					1020					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly		
1025						1030					1035					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly		
1040						1045					1050					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly		
1055						1060					1065					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly		
1070						1075					1080					

Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
1085						1090					1095			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
1100						1105					1110			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
1115						1120					1125			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
1130						1135					1140			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
1145						1150					1155			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
1160						1165					1170			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
1175						1180					1185			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
1190						1195					1200			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
1205						1210					1215			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
1220						1225					1230			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
1235						1240					1245			
Val	Pro	Gly	Val	Gly	Val	Pro								
1250						1255								

<210> 19
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 <212> PRT
 <213> Artificial Sequence

 <220>
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 <222> (4)..(4)
 <223> the residue at posiiton 4 is modified to have an electroresponsiv
 e side chai

<400> 19

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1				5

<210> 20
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<400> 20

Gly Val Gly Val Pro

1

5

<210> 21
 <211> 166
 <212> PRT
 <213> Artificial Sequence

<400> 21

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
 1 5 10 15

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
 20 25 30

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
 35 40 45

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
 50 55 60

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
 65 70 75 80

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
 85 90 95

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
 100 105 110

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
 115 120 125

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
 130 135 140

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
 145 150 155 160

Gly Arg Gly Asp Ser Pro
 165

<210> 22
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<400> 22

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Glu Gly Val Pro
 20 25

<210> 23
 <211> 100
 <212> PRT
 <213> Artificial Sequence

<400> 23

Gly Ala Gly Gly Ala Thr Cys Cys Gly Ala Ala Gly Ala Cys Ala Ala
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 Cys Ala Gly Gly Thr Gly Gly Thr Gly Thr Thr Cys Cys Gly Gly Gly
 20 25 30
 Cys Gly Gly Cys Gly Thr Ala Cys Cys Gly Gly Gly Thr Gly Gly Cys
 35 40 45
 Gly Thr Ala Cys Cys Gly Gly Gly Cys Gly Gly Thr Thr Thr Cys Cys
 50 55 60
 Cys Gly Gly Gly Ala Gly Gly Thr Gly Thr Gly Cys Cys Gly Gly Gly
 65 70 75 80
 Thr Gly Gly Gly Gly Thr Thr Cys Cys Ala Gly Gly Cys Gly Gly Thr
 85 90 95
 Gly Thr Ala Cys
 100

<210> 24
 <211> 100
 <212> DNA
 <213> Artificial Sequence

<400> 24
 ctggatccga agacttcctg gaaaaccgcc cggcacgccca cccggaactc caccgcgaac 60
 accgcccgga aaccaccccg gtacaccgcc tggaacccca 100

<210> 25
 <211> 635
 <212> PRT
 <213> Artificial Sequence

<400> 25
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 1 5 10 15
 Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
 20 25 30
 Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly
 35 40 45
 Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val
 50 55 60
 Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro
 65 70 75 80
 Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly
 85 90 95
 Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val
 100 105 110

Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly
 115 120 125
 Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe
 130 135 140
 Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 145 150 155 160
 Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly
 165 170 175
 Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys
 180 185 190
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly
 195 200 205
 Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val
 210 215 220
 Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro
 225 230 235 240
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
 245 250 255
 Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
 260 265 270
 Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly
 275 280 285
 Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val
 290 295 300
 Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro
 305 310 315 320
 Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly
 325 330 335
 Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val
 340 345 350
 Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly
 355 360 365
 Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe
 370 375 380
 Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 385 390 395 400
 Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly
 405 410 415
 Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys
 420 425 430
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly

435 440 445

Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val
450 455 460

Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro
465 470 475 480

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
485 490 495

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
500 505 510

Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly
515 520 525

Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val
530 535 540

Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro
545 550 555 560

Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly
565 570 575

Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val
580 585 590

Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly
595 600 605

Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe
610 615 620

Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro
625 630 635

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<212> DNA
<213> Artificial Sequence

<400> 26
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gtgtgc 66

<210> 27
<211> 66
<212> DNA
<213> Artificial Sequence

<400> 27
ctggatccaa cgcctgggaa tccgaaaccc ggaaagccta caccgggcac accaacgccc 60
gggaca 66

<210> 28

<211> 6
 <212> PRT
 <213> Artificial Sequence

<400> 28

Gly Arg Gly Asp Ser Pro
 1 5

<210> 29
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<400> 29

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 35 40 45

Val Pro
 50

<210> 30
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<400> 30
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<210> 31
 <211> 36
 <212> DNA
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<400> 31
 ggcgttggtg taccgtaagc ttgaattcgg atccag 36

<210> 32
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<400> 32
 gacctaggtc tggtagccgc aa 22

<210> 33
 <211> 36
 <212> DNA
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<400> 33

ccgcaaccac atggcattcg aacttaagcc taggtc

36

<210> 34
<211> 2003
<212> PRT
<213> Artificial Sequence

<400> 34

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1 5 10 15
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45
Val Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly
50 55 60
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
65 70 75 80
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
85 90 95
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
100 105 110
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
115 120 125
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
130 135 140
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
145 150 155 160
Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val
165 170 175
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
180 185 190
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
195 200 205
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
210 215 220
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
225 230 235 240
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
245 250 255
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
260 265 270

FOECHO=FEETHO

Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val Pro
275 280 285

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
290 295 300

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
305 310 315 320

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
325 330 335

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
340 345 350

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
355 360 365

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
370 375 380

Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val Pro Gly
385 390 395 400

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
405 410 415

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
420 425 430

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
435 440 445

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
450 455 460

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
465 470 475 480

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
485 490 495

Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val Pro Gly Val
500 505 510

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
515 520 525

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
530 535 540

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
545 550 555 560

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
565 570 575

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
580 585 590

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly

595					600					605					
Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
610					615					620					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
625					630					635					640
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
				645					650					655	
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
			660					665					670		
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
	675					680					685				
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
690					695					700					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
705					710					715					720
Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
				725					730					735	
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
			740					745					750		
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
		755					760					765			
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
	770					775					780				
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
785					790					795					800
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
			805					810					815		
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
			820					825					830		
Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
		835					840					845			
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
	850					855					860				
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865						870					875				880
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Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
930 935 940

Arg Gly Asp Ser Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
945 950 955 960

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
965 970 975

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
980 985 990

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
995 1000 1005

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
1010 1015 1020

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
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Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val Pro Gly Val Gly
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
1070 1075 1080

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1190 1195 1200

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
1205 1210 1215

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
1220 1225 1230

Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
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Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
1250						1255					1260			
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Arg
1265						1270					1275			
Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
1280						1285					1290			
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1295						1300					1305			
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1310						1315					1320			
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1325						1330					1335			
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
1340						1345					1350			
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
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1370						1375					1380			
Val	Gly	Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro
1385						1390					1395			
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
1400						1405					1410			
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1415						1420					1425			
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1430						1435					1440			
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1445						1450					1455			
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
1460						1465					1470			
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
1475						1480					1485			
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1490						1495					1500			
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1505						1510					1515			
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
1520						1525					1530			
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1580			1585				1590				1595
Pro Gly	Val Gly	Val	Pro Gly	Val Gly	Val	Pro Gly	Val Gly	Pro Gly	Val Gly	Val	Pro Gly
1595			1600				1605				1610
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1610			1615				1620				1625
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1625			1630				1635				1640
Val Pro	Gly Val	Gly Val	Pro Gly	Val Gly	Val	Pro Gly	Val Gly	Pro Gly	Val Gly	Val	Pro Gly
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1655			1660				1665				1670
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1670			1675				1680				1685
Val Pro	Gly Val	Gly Val	Pro Gly	Val Gly	Val	Pro Gly	Val Gly	Pro Gly	Val Gly	Val	Pro Gly
1685			1690				1695				1700
Val Pro	Gly Val	Gly Val	Pro Gly	Val Gly	Val	Pro Gly	Val Gly	Pro Gly	Val Gly	Val	Pro Gly
1700			1705				1710				1715
Val Pro	Gly Val	Gly Val	Pro Gly	Arg Gly	Asp Ser	Pro Gly	Val Gly	Pro Gly	Val Gly	Val	Pro Gly
1715			1720				1725				1730
Gly Val	Pro Gly	Val Gly	Val Pro	Gly Val	Gly Val	Val Pro	Gly Val	Val Pro	Gly Val	Val	Pro Gly
1730			1735				1740				1745
Gly Val	Pro Gly	Val Gly	Val Pro	Gly Val	Gly Val	Val Pro	Gly Val	Val Pro	Gly Val	Val	Pro Gly
1745			1750				1755				1760
Gly Val	Pro Gly	Val Gly	Val Pro	Gly Val	Gly Val	Val Pro	Gly Val	Val Pro	Gly Val	Val	Pro Gly
1760			1765				1770				1775
Gly Val	Pro Gly	Val Gly	Val Pro	Gly Val	Gly Val	Val Pro	Gly Val	Val Pro	Gly Val	Val	Pro Gly
1775			1780				1785				1790
Gly Val	Pro Gly	Val Gly	Val Pro	Gly Val	Gly Val	Val Pro	Gly Val	Val Pro	Gly Val	Val	Pro Gly
1790			1795				1800				1805
Gly Val	Pro Gly	Val Gly	Val Pro	Gly Val	Gly Val	Val Pro	Gly Val	Val Pro	Gly Val	Val	Pro Gly
1805			1810				1815				1820
Gly Val	Pro Gly	Val Gly	Val Pro	Gly Val	Gly Val	Val Pro	Gly Val	Val Pro	Gly Val	Val	Pro Gly
1820			1825				1830				1835
Gly Asp	Ser Pro	Gly Val	Gly Val	Val Pro	Gly Val	Gly Val	Gly Val	Val Pro	Gly Val	Val	Pro Gly
1835			1840				1845				1850

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1850 1855 1860

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1865 1870 1875

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1880 1885 1890

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1895 1900 1905

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1910 1915 1920

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1925 1930 1935

Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val Pro
1940 1945 1950

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
1955 1960 1965

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1970 1975 1980

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1985 1990 1995

Gly Val Gly Val Pro
2000

<210> 35

<211> 1085

<212> PRT

<213> Artificial Sequence

<400> 35

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Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly
35 40 45

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
50 55 60

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro
65 70 75 80

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
85 90 95

Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val
100 105 110

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly	115	120	125
Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val	130	135	140
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro	145	150	155
Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly	165	170	175
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val	180	185	190
Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly	195	200	205
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val	210	215	220
Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro	225	230	235
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly	245	250	255
Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val	260	265	270
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly	275	280	285
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val	290	295	300
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro	305	310	315
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly	325	330	335
Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val	340	345	350
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly	355	360	365
Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val	370	375	380
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro	385	390	395
Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly	405	410	415
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val	420	425	430

Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
435 440 445

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
450 455 460

Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
465 470 475 480

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
485 490 495

Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
500 505 510

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly
515 520 525

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
530 535 540

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro
545 550 555 560

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
565 570 575

Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val
580 585 590

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
595 600 605

Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val
610 615 620

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
625 630 635 640

Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly
645 650 655

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
660 665 670

Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
675 680 685

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
690 695 700

Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
705 710 715 720

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
725 730 735

Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
740 745 750

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly

755					760					765					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
770					775					780					
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro
785					790					795					800
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
				805					810					815	
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val
			820					825					830		
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
		835					840					845			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	Val
850					855					860					
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
865					870					875					880
Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
				885					890					895	
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			900					905					910		
Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
				915				920					925		
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
930					935					940					
Pro	Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
945					950					955					960
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
				965					970					975	
Lys	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
				980					985					990	
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly
				995					1000					1005	
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	
1010					1015					1020					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	
1025					1030					1035					
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1040					1045					1050					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	
1055					1060					1065					
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Val Pro
1085

<210> 36

<211> 635

<212> PRT

<213> Artificial Sequence

<400> 36

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Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
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Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly
35 40 45

Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val
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Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro
65 70 75 80

Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly
85 90 95

Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val
100 105 110

Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly
115 120 125

Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe
130 135 140

Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
145 150 155 160

Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly
165 170 175

Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys
180 185 190

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly
195 200 205

Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val
210 215 220

Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro
225 230 235 240

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
245 250 255

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
260 265 270

FOE2H0-TEETH00

Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	275	280	285
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Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	305	310	315
Gly	Val	Gly	Phe	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Val	Gly	Val	Pro	Gly	325	330	335
Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	340	345	350
Gly	Phe	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	355	360	365
Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	370	375	380
Pro	Gly	Phe	Gly	Phe	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	385	390	395
Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	405	410	415
Phe	Gly	Phe	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	420	425	430
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Phe	Gly	435	440	445
Phe	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	450	455	460
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Phe	Gly	Phe	Pro	465	470	475
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	485	490	495
Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Val	500	505	510
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	515	520	525
Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Val	Gly	Val	530	535	540
Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	545	550	555
Gly	Val	Gly	Phe	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Val	Gly	Val	Pro	Gly	565	570	575
Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	580	585	590

Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly
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Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe
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Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro
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<210> 37
<211> 782
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<400> 37

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35 40 45

Val Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly
50 55 60

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
65 70 75 80

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
85 90 95

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100 105 110

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
115 120 125

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
130 135 140

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
145 150 155 160

Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val
165 170 175

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
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195 200 205

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
210 215 220

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
225 230 235 240

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 245 250 255
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 275 280 285
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 545 550 555 560
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly

TOECHO: FEFH860

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Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
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Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
			595					600					605		
Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
			610					615					620		
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
			625					630					635		640
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
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Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
			660					665					670		
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			675					680					685		
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
			690					695					700		
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
			705					710					715		720
Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
			725					730					735		
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
			740					745					750		
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
			755					760					765		
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<400> 38

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			20					25					30		
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
		35					40					45			
Val	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val
	50					55						60			
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65					70						75					80
Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	
				85						90				95		
Ala	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	
			100						105					110		
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	
			115						120					125		
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			130						135					140		
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	
					150					155					160	
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	
				165						170					175	
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	
				180						185					190	
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	
				195						200				205		
Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	
						215						220				
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					230					235					240	
Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	
				245						250					255	
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	
				260						265					270	
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	
				275						280					285	
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	
				290						295					300	
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	
					310						315					320
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	
					325						330				335	
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Ala	Pro	
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Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	
				355						360					365	
Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	
						375						380				
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					390						395				400	

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 260 265 270
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
 275 280 285
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 290 295 300
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro
 305 310 315 320
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 325 330 335
 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val
 340 345 350
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 355 360 365
 Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val
 370 375 380
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 385 390 395 400
 Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly
 405 410 415
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 420 425 430
 Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 435 440 445
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 450 455 460
 Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 465 470 475 480
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 485 490 495
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 500 505 510
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
 515 520 525
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 530 535 540
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro
 545 550 555 560
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 565 570 575
 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val

FOEHO = FEEFHBO

580						585						590					
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly		
		595					600					605					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val	Gly	Val		
	610					615					620						
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro		
625					630					635					640		
Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly		
				645					650					655			
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val		
			660					665					670				
Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly		
		675					680					685					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val		
	690					695					700						
Pro	Gly	Glu	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro		
705					710					715					720		
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly		
				725					730					735			
Glu	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val		
			740					745					750				
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly		
		755					760					765					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val		
	770					775					780						
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro		
785					790					795					800		
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly		
				805					810					815			
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val		
			820					825					830				
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		835					840					845					
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val	Gly	Val		
	850					855					860						
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro		
865					870					875					880		
Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly		
				885					890					895			
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val		
			900					905					910				

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 915 920 925
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 930 935 940
 Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 945 950 955 960
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 965 970 975
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 980 985 990
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
 995 1000 1005
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 1010 1015 1020
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
 1025 1030 1035
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 1040 1045 1050
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 35 40 45
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 50 55 60
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 65 70 75 80
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 85 90 95

Val Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val
	100			105		110	
Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val
	115			120		125	
Val Pro Gly	Val Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val	Gly Val
	130			135		140	
Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Pro Gly Val
	145			150		155	160
Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Pro Gly Val
		165		170		175	
Val Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val
	180			185		190	
Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val
	195			200		205	
Val Pro Gly	Val Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val	Gly Val
	210			215		220	
Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Pro Gly Val
	225			230		235	240
Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Pro Gly Val
		245		250		255	
Val Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val
	260			265		270	
Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val
	275			280		285	
Val Pro Gly	Val Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val	Gly Val
	290			295		300	
Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Pro Gly Val
	305			310		315	320
Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Pro Gly Val
		325		330		335	
Val Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val
	340			345		350	
Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val
	355			360		365	
Val Pro Gly	Val Gly Val	Pro Gly Val	Gly Val	Gly Val	Pro Gly Val	Gly Val	Gly Val
	370			375		380	
Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Pro Gly Val
	385			390		395	400
Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Gly Val	Pro Gly Val	Pro Gly Val
		405		410		415	

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
420 425 430

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
435 440 445

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
450 455 460

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
465 470 475 480

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
485 490 495

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
500 505 510

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
515 520 525

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
530 535 540

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
545 550 555 560

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
565 570 575

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
580 585 590

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
595 600 605

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<400> 41

Gly Gly Val Pro
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<210> 42
<211> 4
<212> PRT
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<400> 42

Gly Gly Phe Pro
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<210> 43
<211> 5
<212> PRT
<213> Artificial Sequence

<400> 43

Gly Lys Gly Val Pro
1 5

<210> 44

<211> 5

<212> PRT

<213> Artificial Sequence

<400> 44

Gly Val Gly Phe Pro
1 5

<210> 45

<211> 5

<212> PRT

<213> Artificial Sequence

<400> 45

Gly Phe Gly Phe Pro
1 5

<210> 46

<211> 6

<212> PRT

<213> Artificial Sequence

<400> 46

Gly Arg Gly Asp Ser Pro
1 5

<210> 47

<211> 6

<212> PRT

<213> Artificial Sequence

<400> 47

Gly Val Gly Val Ala Pro
1 5

<210> 48

<211> 5

<212> PRT

<213> Artificial Sequence

<400> 48

Gly Glu Gly Val Pro
1 5

<210> 49

<211> 5

<212> PRT

<213> Artificial Sequence

<400> 49

TOE240:FEETB60

<210> 54
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<400> 54

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
 1 5 10 15

Val Gly Phe Pro Gly Phe Gly Phe Pro
 20 25

<210> 55
 <211> 1300
 <212> PRT
 <213> Artificial Sequence

<400> 55

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
 20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
 35 40 45

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
 50 55 60

Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
 65 70 75 80

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
 85 90 95

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
 100 105 110

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
 115 120 125

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
 130 135 140

Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
 145 150 155 160

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
 165 170 175

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
 180 185 190

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
 195 200 205

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile

TOEHD: TEEFHBO

210					215					220						
Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	
225					230					235					240	
Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	
				245					250					255		
Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	
			260					265					270			
Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	
		275					280					285				
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	
	290					295					300					
Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	
305					310					315					320	
Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	
				325					330					335		
Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	
			340					345					350			
Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	
		355					360					365				
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	
	370					375					380					
Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	
385					390					395					400	
Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	
				405					410					415		
Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	
			420					425					430			
Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	
		435					440					445				
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	
	450					455					460					
Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	
465					470					475					480	
Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	
				485					490					495		
Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	
			500					505					510			
Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	
		515					520					525				
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	
	530					535					540					

Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
545	550	555	560
Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
565	570	575	
Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
580	585	590	
Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
595	600	605	
Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
610	615	620	
Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
625	630	635	640
Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
645	650	655	
Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
660	665	670	
Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
675	680	685	
Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
690	695	700	
Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
705	710	715	720
Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
725	730	735	
Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
740	745	750	
Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
755	760	765	
Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
770	775	780	
Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
785	790	795	800
Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
805	810	815	
Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
820	825	830	
Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
835	840	845	
Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile	Pro Gly Val Gly Ile
850	855	860	

1175	1180	1185
Ile Pro Gly Val Gly Ile 1190	Pro Gly Val Gly Ile 1195	Pro Gly Val Gly 1200
Ile Pro Gly Val Gly Ile 1205	Pro Gly Val Gly Ile 1210	Pro Gly Val Gly 1215
Ile Pro Gly Val Gly Ile 1220	Pro Gly Val Gly Ile 1225	Pro Gly Val Gly 1230
Ile Pro Gly Val Gly Ile 1235	Pro Gly Val Gly Ile 1240	Pro Gly Val Gly 1245
Ile Pro Gly Val Gly Ile 1250	Pro Gly Val Gly Ile 1255	Pro Gly Val Gly 1260
Ile Pro Gly Val Gly Ile 1265	Pro Gly Val Gly Ile 1270	Pro Gly Val Gly 1275
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Ile Pro 50		
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<211> 111		
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<213> Artificial Sequence		
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Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val 20 25 30		
Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly 35 40 45		

Ile Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly
50 55 60

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
65 70 75 80

Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
85 90 95

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
100 105 110

<210> 58
<211> 111
<212> PRT
<213> Artificial Sequence

<400> 58

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
35 40 45

Ile Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly
50 55 60

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
65 70 75 80

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
85 90 95

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
100 105 110

<210> 59
<211> 45
<212> PRT
<213> Artificial Sequence

<400> 59

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Phe Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Phe Gly Val Pro Gly Val
20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Phe Gly Val Pro
35 40 45

<210> 60
<211> 111
<212> PRT
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FEEDBACK

<400> 60

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
35 40 45

Ile Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly
50 55 60

Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Phe
65 70 75 80

Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
85 90 95

Gly Lys Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro
100 105 110

<210> 61

<211> 25

<212> PRT

<213> Artificial Sequence

<400> 61

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Lys Gly Val Pro
20 25

<210> 62

<211> 50

<212> PRT

<213> Artificial Sequence

<400> 62

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
1 5 10 15

Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly
35 40 45

Phe Pro
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<213> Artificial Sequence

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FEEDBACK

